Original/Duplicate/Triplicate
CONTRACT CERTIFICATE

No. *First & Final Bill* (For Other Works) Date……2020

Division: **BBMP, Byatarayanapura** Sub-Division: **BBMP, Vidyarnyapura**

Bill Received No. Dated Divisional / Sub Divisional Cash Book Voucher No…….. Dated……

Work Code: 011-20-000110

Schedule Docket No. Head of Account: **P-3294** **Est. Cost: Rs. 5.00 Lakhs** D.R.No. :

Name of Work (as per sanctioned estimate):	Improvements to General / Public Toilet and Septage Maintenance in Ward No. 11 (Kuvempunagara).
Name of Contractor and Full Address:	M/s. ARM Constructions Prop: Sri Murthy K.G, # 43/4, Ganesh Temple, 6th Cross, Kodigehalli, Bangalore - 92.
Reference to Agreement No.	EE/BTP/BBMP/ E-PMT/02(42441)/WO/111/2020-21 Date: 15.09.2020

Certified that the measurements were taken by me on 11/11/2020 and recorded of **Pages** 368 **to** 377 of measurement Book No. 1924/19-13 and that the work is satisfactorily executed.

Contractor **Officer-in-charge of work**

Certified that the measurement were taken by me on ……and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

II Memorandum of Payment

1) Total value of work done or supplies made as per account within
2) Deduct amount to be held in reserve being ……percent Rs……
3) " Balance
4) Deduct Payment:
   a. Amount of previous payment as in the Office Cash Book Voucher No……Dated……S.D. No……..… Amount adjusted towards cash advance recovery of
   b. Payments Now made } cost store or other material supplied. / recovery of amount creditable to this/other work / Amount paid on this bill Cheque / Cash.
5) Balance being unpaid value of work done held in reserve.
6) Deduct cash advance made on the Office cash Book Voucher No…… dated……less adjustments.
7) Net amount due to or from Contractor unadjustments items.
8) Advance to Contractor for materials brought to site (as detailed) within.
9) Value of Government materials supplied.

Total amount adjusted -

Contractor's Signature

Received Rs…….. (in words)……
……
by cash and by adjustment of Payment as per memorandum
(in final settlement of all demands) (For use in the Office)

Witness
1.
2.

Stamp

Dated Signature of Contractor

Paid by me by Cheque No……Dated……
Cash Rs……..
Dated……

Initials of Officer making payment **Executive Engineer**

Sl. No	Description of work	Un	Previo Qty
1	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, **in ordinary soil** not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods etc complete as per specifications and directions of engineer in charge of the work	Cu	-
2	Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing etc complete as per specifications and directions of engineer in charge of the work	Cu	-
3	Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6, stone** hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing etc complete as per specifications and directions of engineer in charge of the work	Cu	-
4	Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing etc complete as per specifications and directions of engineer in charge of the work	Cu	-
5	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms, in depth, compacting each deposited layers by ramming after watering with lead upto 50m, and lift upto 1.5m, including cost of all labour etc complete as per specifications and directions of engineer in charge of the work	Cu	-
6	Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, **for raft foundation column footing , main and secondary beams** with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) etc complete as per specifications and directions of	Cu	-
7	Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing etc complete as per specifications and directions of engineer in charge of the work	Sq	
8	Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing etc complete as per specifications and directions of engineer in charge of the work	Sq	-
9	Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - **TMT bars Fe 500** etc complete as per specifications and directions of engineer in charge of the work	To e	
10	Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labour etc complete as per specifications and directions of engineer in charge of the work	Sq	-
11	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to **ceiling** including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing etc complete as per specifications and directions of engineer in charge of the work	Sq	-

	Un	Previous Measurement		Present Measurement			Total UP-to-date		Rmks
		Qty	Cost	Qty	Rate Rs.	Cost	Qty.	Cost	
pits the pto k	Cu	-	-	19.30	305.81	5902.00	19.30	5902.00	
mm ine on, ons	Cu	-	-	4.72	5218.12	24630.00	4.72	24630.00	
1:6, rse rge	Cu	-	-	6.95	4700.60	32669.00	6.95	32669.00	
1:6, rse rge	Cu	-	-	4.58	5607.79	25684.00	4.58	25684.00	
ing pto the	Cu	-	-	19.30	205.57	3968.00	19.30	3968.00	
ine ted tc., of	Cu	-	-	3.86	5567.91	21492.00	3.86	21492.00	
ock g to our	Sq			30.12	945.03	28464.00	30.12	28464.00	
ing m2 all r in	Sq	-	-	13.60	829.46	11281.00	13.60	11281.00	
cing ing aid) MT	To e			0.39	72581.19	28307.00	0.39	28307.00	
red g a und ete ater tary ling ent ess vith be als,	Sq	-	-	17.05	1028.90	17543.00	17.05	17543.00	
off als,	Sq	-	-	12.90	197.39	2546.00	12.90	2546.00	

Sl. No	Description of work	U
12	Providing 20mm thick cement plaster in single coat with cement mortar 1:6, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing etc complete as per specifications and directions of engineer in charge of the work	Sq
13	Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing etc complete as per specifications and directions of engineer in charge of the work	Sq
14	Providing and fixing colour glazed tiles of size 300mmx600mm for walls with borders of size 300x100mm, set in Cement Mortar 1:3 and pointed with white cement with matching colour pigment with necessary curing, cleaning including providing and removing scaffolding wherever necessary etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for equipment, etc complete as per specifications and directions of engineer in charge of the work	Sq
15	Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16, 14.17 - Colour glazed tiles 30x60 cms 6mm thick with border of size 30 x 60 cms. etc complete as per specifications and directions of engineer in charge of the work	Sq
16	Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour etc complete as per specifications and directions of engineer in charge of the work	Sq
17	Supplying and fixing pressed steel door frames size 125x65 mm manufactured from 1.25mm thick carbon steel or imported steel strips with mitred joints of 900 for door openings and shutters made out of seasoned Honne wood, styles of 30 mm, thick with lock rail of 160 mm, width, top and side rails of 100 mm. width and bottom rails of 250 mm width and panel filling with 12mm thick particle board of exterior grade bonded with phenol formal dehide resin and the shutter shall be rot proof, vermin proof, heat resistant guaranteed against shrinkage, warpage and such other defects for a period of 3 years. This shall be as per approved drawings, specification and direction including cost of conveyance, manufacturing, painting with enamel paint 2 coats over primer coat, cost of labour for all items of work, machinery, equipment and all other incidental charges with all lead, lift, loading and unloading etc., complete. The Hollow portion of the frame to be filled with cement concrete 1:2:4 etc complete as per specifications and directions of engineer in charge of the work	Sq
18	"Supplying and fixing pressed steel window frame of size 100 x 50mm manufactured from 1.25 mm thick carbon steel or imported steel strips with neat mitred joints at 900degree for window openings and shall be suitable to fix M.S. grills as per design and drawings using 12mm dia rods at 100mm Centre to Centre horizontally and two members of M.S flats of 6mmx40mm size at 150mm apart, welded into a frame of 6mmx40mm size M.S. flats with 16mm size lugs, and 8 Nos. of 100mm size hinges, 4 Nos of Butt Stay pins and 4 Nos. Tower bolts and shutters half panelled and hallf glazed with shutters made out of seasoned honne wood, styles of 30mm thick and 100mm width and rails of 30mm thick and 100mm width and using 4mm thick pin headed glass and panel, filling with 12mm thick particle board of exterior grade bonded with phenol formal dehide resin and the shutter shall be rot proof vermin proof, heat resistant guaranteed against shrinkage, warp age and such other defects for a period of 3 years.This shall be as per approved drawing, specification and direction including cost of conveyance, manufacturing painting with 2 coats enamel paint over one coat of primer, cost of labour for all items of work, machinery, equipment and all other incidental charges with all lead, lift loading and unloading etc., complete. The Hollow portion of the frame to be filled with cement concrete 1:2:4." etc complete as per specifications and directions of engineer in charge of the work	Sq
19	Providing and **applying two coats with oil bound washable distemper** of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, etc complete as per specifications and directions of engineer in charge of the work	Sq
20	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer etc complete as per specifications and directions of engineer in charge of the work	Sq

	U	Previous Measurement		Present Measurement			Total UP-to-date		Rmk s
		Qty	Cost	Qty	Rate Rs.	Cost	Qty.	Cost	
urface olding, harge	Sc	-	-	48.40	259.78	12573.00	48.40	12573.00	
nding erials,	Sc	-	-	47.51	250.58	11905.00	47.51	11905.00	
set in aning of all s and	Sc	-	-	9.68	1157.76	11207.00	9.68	11207.00	
d with ld be bour, thick of the	Sc	-	-	47.04	1669.14	78516.00	47.04	78516.00	
k for te as	Sc	-	-	20.49	263.87	5407.00	20.49	5407.00	
eel or vood, f 250 ehide e and ction abour and te as	Sc	-	-	6.93	3283.06	22752.00	6.93	22752.00	
arbon to fix d two flats and k and filling all be eriod ance, work, The and	Sc	-	-	1.89	3630.80	6862.00	1.89	6862.00	
wall rops bour,	Sc	-	-	61.30	112.50	6896.00	61.30	6896.00	
de to free imer	Sc	-	-	47.51	102.39	4865.00	47.51	4865.00	

Sl. No	Description of work	Unit	Pre Qt
21	Providing and fixing white vitreous china clay, water closet Indian type (Squatting pan) of size 580mm with footrests, 100mm S or P trap, 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with specials and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour etc complete as per specifications and directions of engineer in charge of the work	pan	-
22	Providing and fixing white vitreous china clay, wall corner type, lipped front urinal basin of size 340x410x265mm in the range of two with 7.5 litre P.V.C automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour etc complete as per specifications and directions of engineer in charge of the work	Uni	-
23	Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour etc complete as per specifications and directions of engineer in charge of the work	Uni	-
24	Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour etc complete as per specifications and directions of engineer in charge of the work	Uni	-
25	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) - 20mm nominal OD pipes etc complete as per specifications and directions of engineer in charge of the work	m	-
26	Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications. **(For 1000 litre capacity)** etc complete as per specifications and directions of engineer in charge of the work	Nos	-
27	Providing and fixing in position brass bib cock of approved quality 25mm nominal bore including cost of all materials, labour and HOM of equipments with all leads etc complete as per specifications and directions of engineer in charge of the work	Eac	-
28	Providing and fixing sand cast iron soil waste and vent pipes 100mm dia with spun yarn soaked in cement slurry and cement mortar 1:2 including cost of materials, labour, testing etc complete as per specifications and directions of engineer in charge of the work	m	-
	Total Amount		
	GST @ 12%		
	Total Amount		

Certificate:

1 The above work has been Completed satisfactorily.

Unit	Previous Measurement		Present Measurement			Total UP-to-date		Rmks
	Qty	Cost	Qty	Rate Rs.	Cost	Qty.	Cost	
with C.I / 5mm wall tions par	-	-	3.00	3519.39	10558.00	3.00	10558.00	
m in C.P. d the and Uni	-	-	3.00	3919.22	11758.00	3.00	11758.00	
litres brass floor ns of Uni	-	-	2.00	3083.74	6167.00	2.00	6167.00	
C.P and r etc Uni	-	-	2.00	4098.20	8196.00	2.00	8196.00	
rmal pipe ment s per m	-	-	20.00	160.57	3211.00	20.00	3211.00	
cking of all 1000 No	-	-	1	6854.08	6854.00	1.00	6854.00	
of all ns of Eac	-	-	10	241.37	2414.00	10.00	2414.00	
slurry and m	-	-	15.00	681.16	10217.00	15.00	10217.00	
ount					**422844.00**		**422844.00**	
12%					**50741.00**		**50741.00**	
ount					**473585.00**		**473585.00**	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97